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Serial No.: 10/005,968

Attorney Docket No.: 01P4224US01**IN THE CLAIMS:**

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Previously Presented) A system, comprising:
a transmitter including a power amplifier; and
a power controller adapted to receive a coupler value of a power level at said output of said power amplifier if said power level is above a predetermined low power threshold and, if the coupler value is not equal to a set value, adjust a control value until the coupler value substantially equals the set value; and perform a low power extrapolation if said power level is below a predetermined threshold.
2. (Previously Presented) A system in accordance with claim 1, an output of said power controller adapted to control a setting of said power amplifier.
3. (Currently Amended) A method for use in a telecommunications transmitter, comprising:
initializing low power threshold, nominal transmit power, coupler, and transmit DAC values;
specifying a set power level;
setting a transmit DAC with [[said]] a [[initial]] nominal transmit DAC value corresponding to said set power level;
reading an output of a power coupler and determining an output of a power coupler value after said transmit DAC is set with said nominal transmit DAC value;
comparing said [[output]] power coupler value to a nominal power coupler value;
adjusting said transmit DAC such that said [[output]] power coupler value substantially matches said nominal power coupler value if said set power level is greater than said low power threshold;

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extrapolating past transmit DAC values to set said transmit DAC if said set power level is less than said ~~a predetermined~~ low power threshold.

4. (Original) A method in accordance with claim 3, wherein said threshold defines a linear region of a coupler vs. transmit power response.

5. (Currently Amended) A radio transmitter system, comprising:
a transmitter having a variable gain amplifier; and
means for adjusting a gain level of said variable gain amplifier, said adjusting means configured to receive based on a coupler output value corresponding to a power level at an output of said variable gain amplifier if said power level measurement is greater than a predetermined low power threshold and, if the coupler value is not equal to a set value, adjusting said gain level until the coupler value substantially equals the set value, and
means operably coupled to the gain level adjusting means for extrapolating a low power gain level if said power level is less than said predetermined low power threshold.

6. (Canceled).

7. (Currently Amended) A radio transmitter system in accordance with claim ~~[[6]]~~ 5, said adjusting means further including a slope calculation unit adapted to provide a power curve value to said extrapolating means if a power measurement is less than said predetermined threshold.

8. (Currently Amended) A system, comprising:
a transmitter including a power amplifier configured to receive an initial set power level; and

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a power controller ~~adapted~~ configured to adjust a ~~power level~~ an output of said power amplifier based on a low power extrapolation of a power measurement if said set power level is below a predetermined low power threshold and adjust said output based on said power measurement until an output coupler value corresponds to a nominal value if said set power level is above said predetermined low power threshold.

9. (Canceled)

10. (Currently Amended) A system in accordance with claim ~~[[9]]~~ 8, wherein said low power extrapolation is derived from a past values on a power curve.

11. (Currently Amended) A system comprising:

a transmitter including a power amplifier;

a level detector ~~adapted~~ configured to ~~determine~~ compare a set power level with respect to a low power threshold;

a power controller ~~adapted~~ configured to adjust a ~~power level~~ an output of said power amplifier based on a low power extrapolation of a coupler output if said set power level is below said low power threshold and adjust an output of said power amplifier until said coupler output corresponds to a nominal value if said set power level is above said predetermined threshold .

12. (Original) A system in accordance with claim 11, wherein said power controller is adapted to adjust a gain level of a power amplifier.

13. (Original) A system in accordance with claim 12, wherein determining said extrapolation comprises determining a value of an output power curve using past measured values of said output power.

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14. (Currently Amended) A telecommunications device, comprising:
a transmitter including a power amplifier controlled via a transmit DAC;
a level detector adapted to ~~determine~~ compare a power level with respect to a low power threshold;
a power controller adapted to adjust a value of said transmit DAC based on a low power extrapolation of a coupler output if said power level is below said low power threshold; and
wherein said power controller is adapted to adjust a value of said transmit DAC based on said output of said power coupler if said set power level is above said low power threshold until a coupler value is substantially equal to said power level.

15. (New) A system, comprising:
a transmitter including a power amplifier; and
means configured to receive a coupler value of a power level at said output of said power amplifier if said power level is above a predetermined low power threshold and, if the coupler value is not equal to a set value, adjusting a control value until the coupler value substantially equals the set value; and performing a low power extrapolation if said power level is below a predetermined threshold.